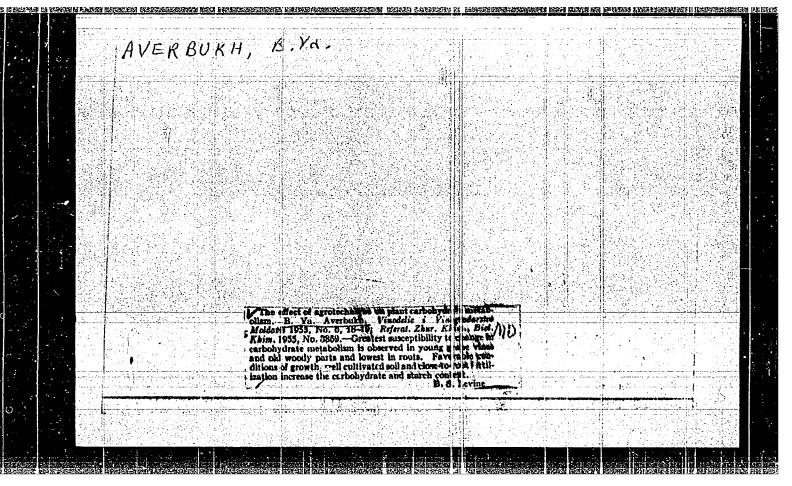
"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102530011-8



CAKHAROV, A.V., inzh.; AVERBUKH, D.I., inch.

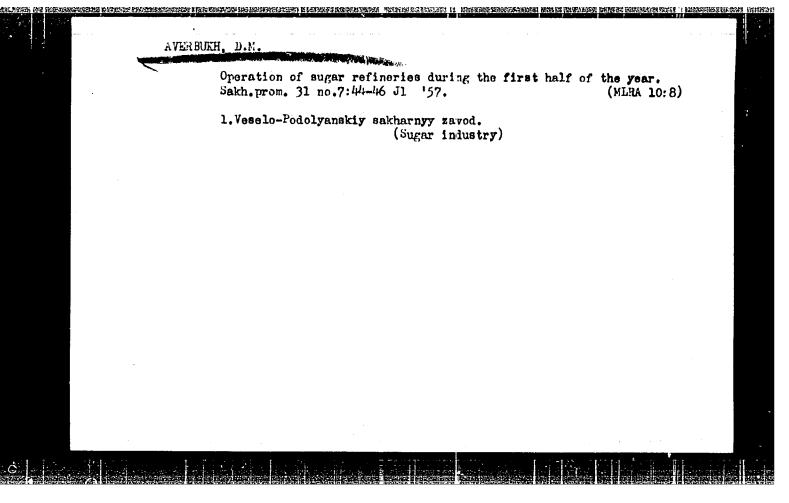
Heviev of V.V. fubrovskii's book "Locating underground waters for the water supply of pover engineering systems."

Elek. sta. 35 no.3291 Mr 164. (MIRA 1726)

KAR KARASASASARAN KARA WARA DESARES BERKU ERRAKARARA I BEN MERIKE A DERAKERARAR BERKU AYARA BERKU BE

- 1. AVERBUKH, D. M.
- 2. USSR (600)
- 4. Sugar Industry-Accounting
- 7. Organizing socialist competition for lowering production cost in each separate operation.
  Sakh. prom. 26 No. 11, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.



是是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们们也不是一个人。我们也不是一个人,我们也不会的人,我们就是这些人的人,我们也不是一个人,我们

14,1800

S/058/61/000/010/099/100

AUTHORS: \_

Averbukh, D.Ya., Pokatilov, Ye.P.

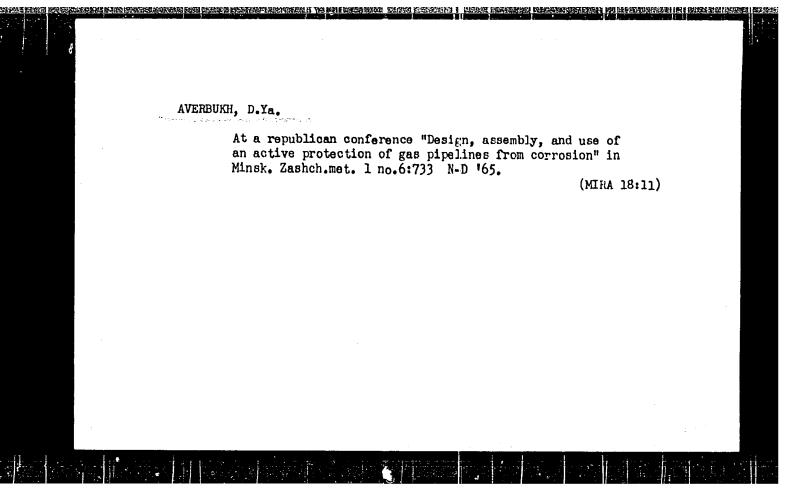
TITLE:

Quantum theory of ultrasonic resonance

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1961, 336, abstract 10Zh455 ("Uch. zap. Kishinevsk. un-t", 1960, v. 55, 155 - 162)

TEXT: This is a short mathematical article. The authors discuss the motion of electrons in a magnetic field in the presence of accustic waves, probability of transitions in discrete spectrum, and absorption of ultrasonic energy.

Card 1/1



AVERBUKH, E.Sh., inzh.; BOCHANOV, Ye.Ye., inzh.; GROYSMAN, A.D., inzh.; KUPERMAN, M.A., inzh.

Automatic control of hopper loading. Mekh. i avtom.proizv. 19 no.3:19-22 Mr '65. (MIRA 18:4)

AVERBUKH, F. KH.

Founding

Mechanization of form opening in conveyor foundry shape. Lit. proizv. No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress December 1952 UNCLASSIFIFD

AUTHORS:

SOV/91-59-2-21/33

Averbukh, G. L., and Lur'ye, Z. Ya., Engineers

TITLE:

A Diagram of an Automatic Switch-In of Reserve Current

(Skhema avtomaticheskogo vvoda rezerva)

PERIODICAL:

Energetik, 1959, Nr 2, p 29 (USSR)

ABSTRACT:

In this article, the authors criticize a few shortcomings of a diagram of the automatic switch-in of reserve current, suggested by Engineer S. P. Bakumenko and published in Energetik, 1958, Nr 1. In its place they introduce another more reliable diagram. There is one diagram.

Card 1/1

KARANTAN BARTAN BARTAN

SOV/110-59-5-3/25

AUTHORS: Averbukh, G.L., Engineer, Kogan, I.Ya., Engineer and

Lur'ye, Z.Ya., Engineer

TITLE: The Selection of Automatic Cutouts Series A 3100 for

Protecting the Circuits of Three-Phase Squirrel-Cage Motor: (Vybor ustanovochnykh avtomatov serii AZ100 dlya zashchity tsepey trekhfaznykh dvigateley s korotkozam-

knutym rotorom)

PERIODICAL: Vestnik slektropromyshlennosti, 1959, Nr 5, pp 12-15 (USSR)

ABSTRACT: IT is most important to select correctly the rated currents and trip settings of protective devices for squirrel-

cage motors. It is usual to make such selection on the basis of continuous operation with a limited number of starts per hour. This article gives a method of selecting the rated current of the tripping device protecting a three-phase squirrel-cage motor operating on a repeated short duty cycle with a large number of starts per hour.

The method is based on the use of the experimental heating curve of the thermal element of the trip and on its

Card 1/4 current/time characteristics. Since the thermal element is

SOV/110-59-5-3/25

The Selection of Automatic Cutouts Series A 3100 for Protecting the Circuits of Three-Phase Equirrel-Cage Motors

not a uniform body, the experimental heating curve cannot be expressed by a normal exponential equation. The experimental heating curve, shown in Fig 1, may be resolved into two sections of different time-constants. The first section is from the origin to the knee, with a heating time of the order of 2-3 minutes, and the second section is the rest of the curve. Considering the case of an automatic protective device type A3126 operating with a squirrel-cage motor started 30 times an hour, the cycle time will be 2 minutes and, since this is shorter than the first section of the heating curve, the heating calculations that follow need only be related to this part of the curve. Formula (1) is then given as an approximation to the first part of the heating curve and the method of determining the time constant is explained. The heating curve of the thermal element with a repeated short cycle is shown in Fig 2. The three repeated sections of the curve are: starting time, running time and idling time. After a certain number of operations an

Card 2/4

SOV/110-59-5-3/25

The Selection of Automatic Cutouts Series A 3100 for Protecting the Circuits of Three-Phase Squirrel-Cage Motors

equilibrium condition is reached in which the heat evolved in the thermal element during the cycle is equal to that given out to the surroundings. When this condition is reached, the maximum temperature at the end of a start, corresponding to point A on the graph, should be somewhat below the operating temperature of the trip. The trip is calibrated so that it just does not operate at 110% rated current. To leave some margin of safety, the calculation is made for a maximum temperature rise at point A: equal to the steady-state temperature rise of the thermal element with 105% rated current. In order to determine the permissible overload rating of the \*nermal element for a given operating cycle, the cyclic heating curve of the element when the equilibrium condition has been reached is then considered. Equations are derived for the three sections of this heating curve and then are combined together to obtain the relationship between the operating time and the overload factor of the trip given in expression (11). The point of intersection between a

Card 3/4

SOV/110-59-5-3/25

The Selection of Automatic Cutouts Series A 3100 for Protecting the Circuits of Three-Phase Squirrel-Cage Motors

> curve constructed from expression (11) and the current/ time characteristic of the trip gives the maximum permissible overload rating of the trip. By constructing a number of such points for different operating cycles as shown in Fig 3, the curve of overload factor as function of number of operating cycles per hour is obtained and shown in Fig 4. These curves are used to select the rated current of the automatic tripping device when operating with a given number of cycles per hour. A numerical example is then worked out for automatic protective equipment type A3124 with a rated trip current of 15A and the results are plotted in Fig 7 and 8. There are 8 figures and 1 table.

SUBMITTED: 21st July 1958

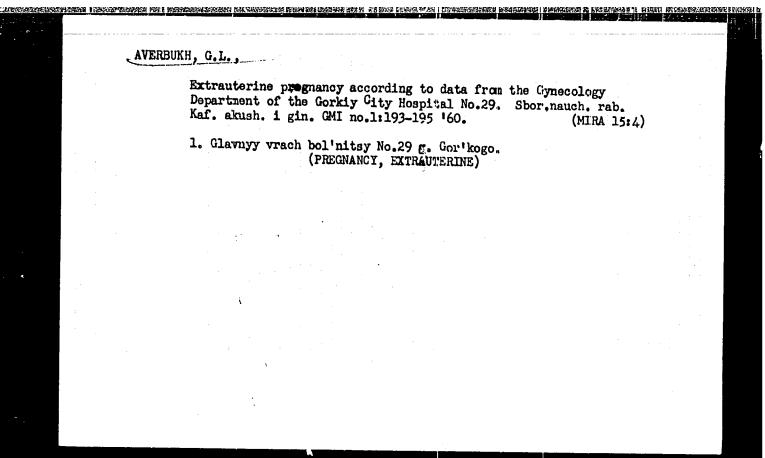
Card 4/4

- AVERBUKH, G.L.; SOLOV'YEVA, M.S., kand.med.nauk

On K.N.Zhmakin's article "Basic principles in the treatment of inflammatory diseases of the femal., genitalia." Sov.med. 25 nq.1: [MIRA 14.3]

1. Is ginekologicheskoy bol'nitsy No.29 g.Gor'kogc' (glavnyy vrach G.L.Averbukh).

(GENERATIVE ORGANS, FEMALE-DISEASES)



AVERBUKH, I. D.

USSR/Mining

Coal

Electric Power Stations

Feb 49

"Power Factor of the Korkino Coal Mine," Docent S. A. Volotovskiy, Cand Tech Sci, I. D. Averbukh, Asst, Swerdlovsk Mining Inst imeni V. V. Vakhrushev, 3 pp

"Ugol" No 2

Discusses results of an investigation conducted by Sverdlovak Mining Inst imeni Vakhrushev to determine power consumption of basic equipment of the Korkino Coal Mines. Electrical measurements clarified reasons for a low power factor of the mines' electric power system. Determined power factors of basic current collectors of all Korkino collieries. Action was taken to decrease the cost of power. Gives diagrams and table of experimental results.

PA 48/49T80

AVERBUKH, I. D.; SVERDEL', I.S.

Standardizing power consumption in dry magnet superation of iron ore.

Gor. zhur. 126 no. 6, 1952.

S0: MLRA. September 1952.

15-57-4-5596D Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,

p 211 (USSR)

AUTHOR:

Averbukh, I. D.

TITLE:

Parameters of Rolling Stock Used in Transportation by Contact Electric Trains in Coal Mines (Vybor parametrov podvizhnogo sostava pri podzemnov otkatke kontaktnymi elektrovozami v kamennougol'nykh

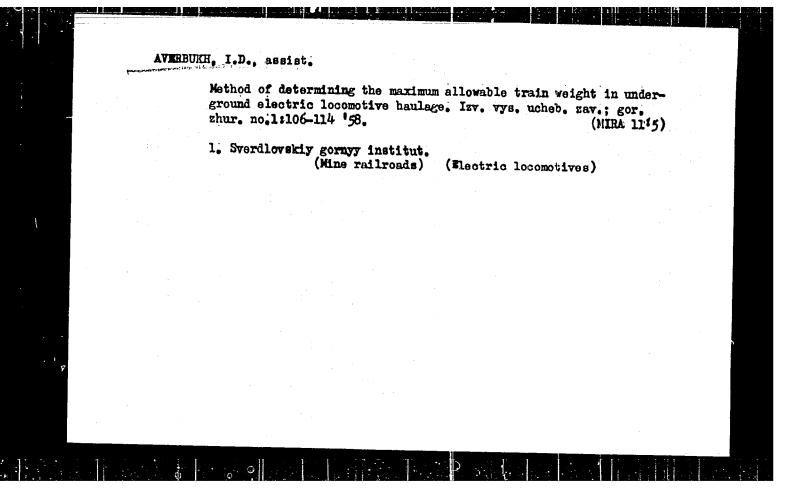
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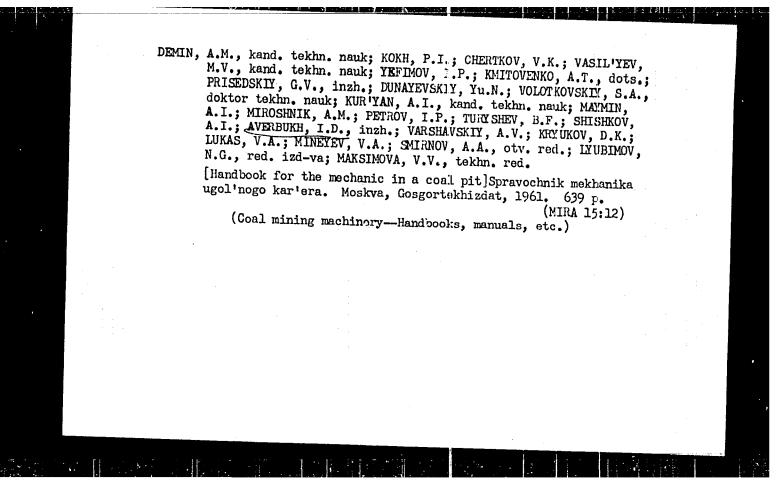
ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to Sverdl. gorn. in-t (Sverdlovsk Mining Institute), Sverdlovsk, 1956

ASSOCIATION: Card 1/1

Sverdl. gorn. in-t (Sverdlovsk Mining Institute)





AVERBUEH, I.D., starship prepodavatel'; KOMLEV, V.P., assistent

Methods of investigating vagrant currents in mines. Izv.vys.ucheb.zav.;
gor.zhur. no.6:67-72 '58. (MIRA 12:1)

1. Sverdlovskiy gormyy institut.
(Electric currents, Eddy) (Mining engineering)

DEMIN, A.M., kand. tekhn. nauk; CHERTKOV, V.K.; VASIL'YEV, M.V., kand. tekhn. nauk; YEFIMOV, I.P.; KOKH, P.I.; KMITOVENKO, A.T., dots.; PRISEDSKIY, G.V., inzh.; DUNANEVSKIY, Yu.N.; VOLOTKOVSKIY, S.A., prof., doktor tekhn. nauk; KUR'NAN, A.I., kand. tekhn. nauk; MAYMIN, S.R., kand. tekhn. nauk; MIROSHNIK, A.M., kand. tekhn. nauk; PETROV, I.P., kand. tekhn. nauk; TURYSHEV, B.F., kand. tekhn.nauk; SHISHKOV, A.I., kand. tekhn. nauk; AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, D.K.; LUKAS, V.A.; MINEYEV, V.A.; SMIRNOV, A.A., otv. red.; LYUBIMOV, N.G., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Handbook for the operator and mechanic of open-pit mine equipment] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 639 p.

(MIRA 15:3)

(Strip mining—Equipment and supplies)
(Coal mining machinery) (Electricity in mining)

BUTTER CONTROL OF SELECTION OF

DEMIN, A.M., kand. tekhn. nauk; CHERTKOV, V.K.; VASIL'YEV, M.V., kand. tekhn. nauk; YEFIMOV, I.P.; KOKH, P.I.; KMITOVENKO, A.T., dots.; PRISEDSKIY, G.V., inzh.; DUNAYHVSKIY, Yu.H.; VOLOTKOVSKIY, S.A., prof., doktor tekhn. nauk; KUR'YAN, A.I., kand. tekhn. nauk; MAYMIN, S.R., kand. tekhn. nauk; MIROSHNIK, A.M., kand. tekhn. nauk; PETROV, I.P., kand. tekhr. nauk; TURYSHEV, B.F., kand. tekhn.nauk; SHISHKOV, A.I., kand. tekhn. nauk; AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, D.K.; LUKAS, V.A.; MINEYEV, V.A.; SMIRNOV, A.A., ctv. red.; LYUBIMOV, N.G., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Handbook for the operator and mechanic of open-pit mine equipment] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 639 p.

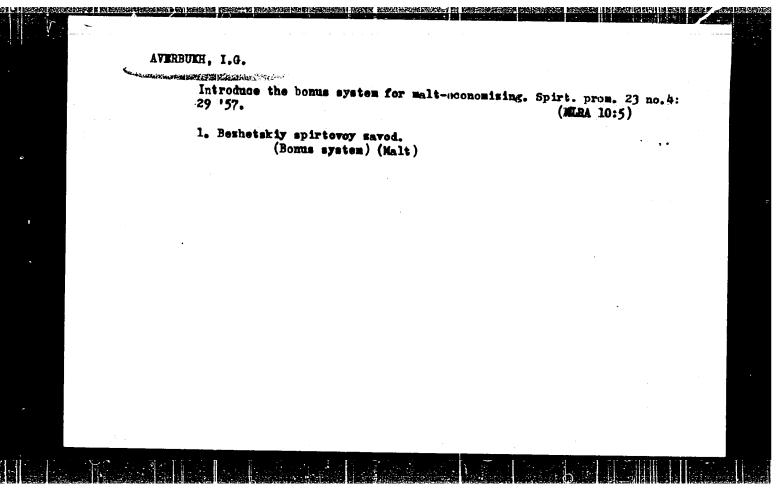
(MIRA 15:3)

(Strip mining—Equipment and supplies)
(Coal mining machinery) (Electricity in mining)

AVERBUKH, I.D., starshiy prepodavatel'; PETROV, Yu.S., dotsent; TURYSHEV,
B.F., dotsent; TALALAYENKO, V.A., inzh.

Protection form electrocution when the excavator bucket touches the contact wire. Izv. vys. ucheb. zav.; gor. zhur. 6 mo.61130-137 '63. (MIRA 16:8)

1. Sverdlovskiy gornyy institut imeni V.V. Vakhrusheva. Rekomendovana kafedroy gornoy elektrotekhniki. (Excavating machinery—Safety applicances)



L 08718-67 EWT(d)/EWP(o)/EWP(x)/EWP(k)/EWP(1) ACC NR. 116032505 IMMNOR: Averbukh, I. I.; Kalinin, V. A.; Pranitskiy, A. A.; Stukel'man, L. L. ORG: none . В TITLE: Ultrasonic resonance method of thickness inspection. Class 42, No. 185496 [announced by the All-Union Scientific Research Institute for the Development of Methods of Nondestructive Quality Control (Vsesoyuznyy nauchno-issledovatel'skiy institut po razrabotke nerazrushayushchikh metodov kontrolya materialov)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 72 TOPIC TAGS: thickness inspection, ultrasonic resonance, ultrasonic inspection ABSTRACT: This Author Certificate introduces an ultrasonic resonance method of thickness inspection. To obtain the deviation of the measured thickness from the nominal thickness, the ultrasonic generator's frequency is varied within the range determined by the thickness limits, thereby ensuring the occurrence of resonance only at a frequency corresponding to a given thickness. SUB CODE: 11, 13/ SUBM DATE: 31Mar65/ Card nst UDC: 531.717.11

AVENDUKH, I. Ka.

USSR/Virology - Bacterial Viruses

E-1

Abs Jour

: Referat Zhurn - Biol. No 16, 25 Aug 1957, 68224

Author

: Shevchenko, F.I., Averbukh, I.Ya.

Title

: On Preservation of Activity of Dysentery Facteriophage

After Prolonged Storage.

Orig Pub

: Za Sots. Edravookhr., Usbekistana, 1956, No 3, 57-59

Abstract

: Upon prolonged storage (12-13 years) of 7 races of polyvalent dysentery phage in darkness at room temperature under Middle-Asian conditions (Samirkand), its activity was conserved to the extent of 30-50% of its initial

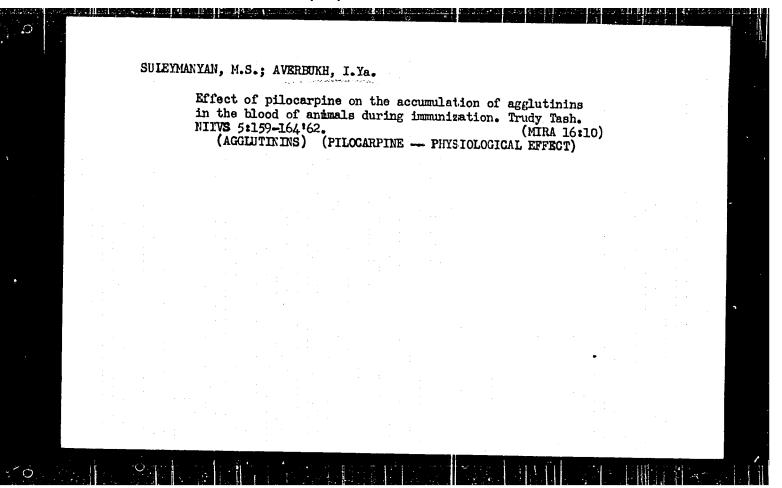
titer.

(Editor's note) The authors' conclusion about the percentage of preserved phage does not correspond to the experimental data shown by them. As is evident from the table the titer of phage which was active in Flexner's culture, at the examination after 12 years and 10 months, was lowered from 10<sup>-0</sup> to 10<sup>-4</sup>, which corresponds not to 50% of preservation of the initial titer, but only to

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- 2 -

0.01%.



AVERBUKH, I.Ye.; BULKIN, N.D.; POPPE, K.K.

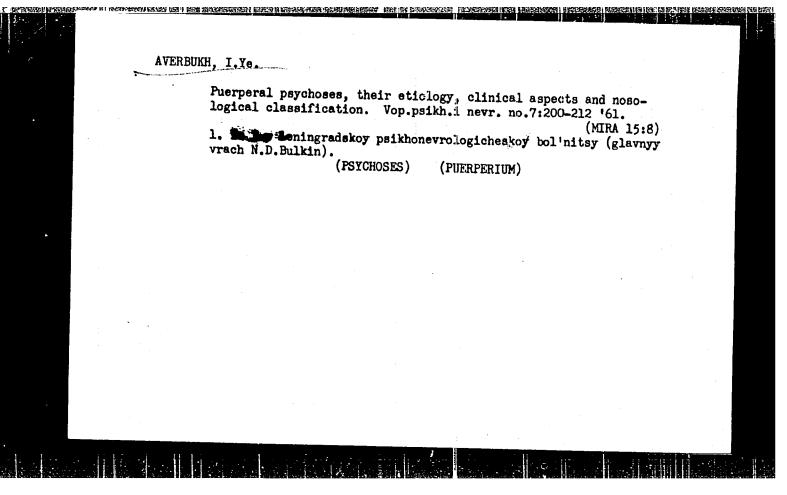
Mffectiveness of the use of large doses of strychnine in barbifurate poisoning. Vrach.delo no.3:311-313 Mr 160. (MIRA 13:6)

1. Tret'ya psikhonevrologicheskaya bol'nitsa, Leningrad. (BARBITURATES--TOXICOLOGY) (STRYCHNINE)

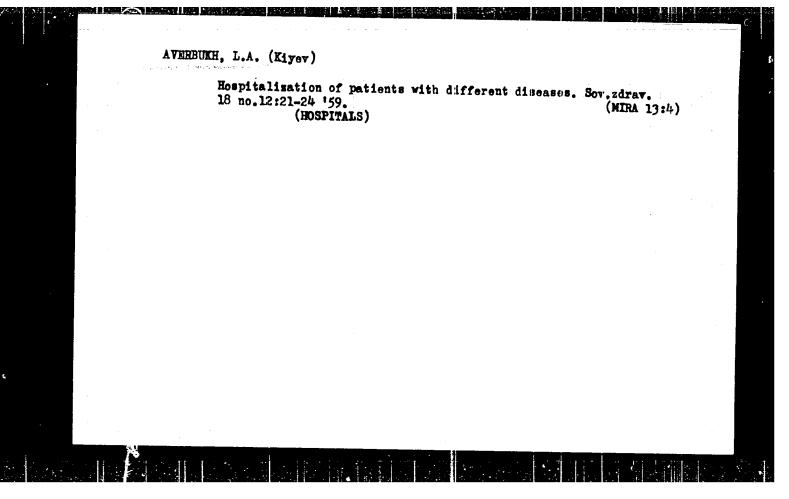
AVERBUKH, I. Ye. Cand Med Sci -- "Postnatal psychoses. Etiology, clinic, and nosological affiliation." Len, 1961 (1st Len Med Inst im Academician I. P. Pavlov). (KL, 4-61, 207)

3/5

# Mental and physical condition of women in the postnatal period and postnatal psychoses. Vop. psikh. i nevr. no.5:193-201 '59. 1. Iz 3-y Leningradskoy psikhonevrologicheskoy boll'nitsy imeni Skvortsova-Stepanova (glavnyy vrach - N.D.Bulkin). (WOMEN-DISEASES) (PSI/CHOSES)



# AVERBUKH, L.A. (Kiyey) Some results of studying the number of people applying for medical services. Vrach.delo no.7:743-745 J1 177. (MIRA 10:8) 1. Ukrainskoe nauchno-issledovatel'skoye byuro sanitarnoy statistiki Ministerstva zdravookhraneniya USSR (MEDICAL STATISTICS)



## AVARBUKH, L.A. (Kiyev)

Level of general mortality in individual diseases. Vrach.delo no.4:405-409 Ap 160. (MIRA 13:6)

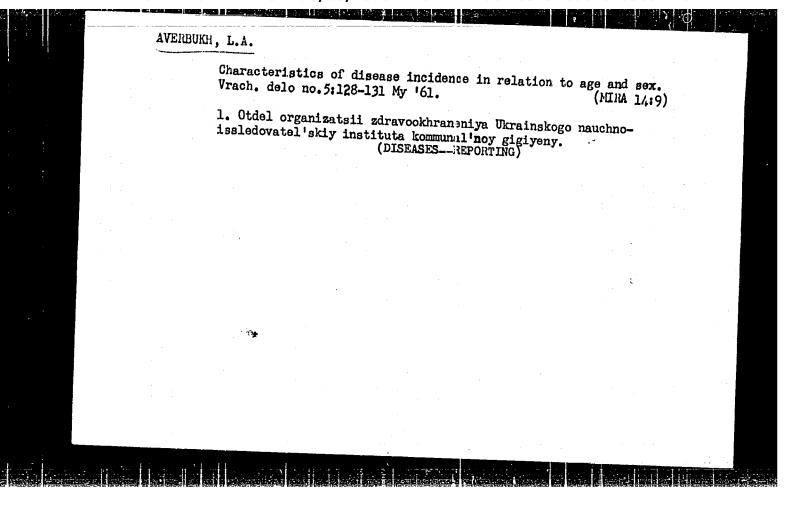
1. Otdel organizatsii zdravookhrananiya Ukrainskogo nauchnoissledovatel'skogo instituta kommutal'noy gigiyeny. (DISEASES--REPORTING)

# AVERBURH, L.A. (Kiyev)

TO PERSON BUILDING MARKET AND A STATE OF STATE O

Morbidity of the adult population of Vinnitsa; material from a special processing of data on medical treatment. Sov.zdrav. 19 no.2:48-51 '60. (MIRA 13:5)

1. Iz otdela organizatsii zdravookhraneniya Ukrainskogo instituta kommunal'noy gigiyeny. (VINNITSA--DISEASES--REPUMTING)



AVERBURH, L. A. (Kiyev)

Some data on the shifts in morbidity among the adult population of Kiev for a 10-year period. Vrach, delo no.7:115-120 J1 '62. (MIFA 15:7)

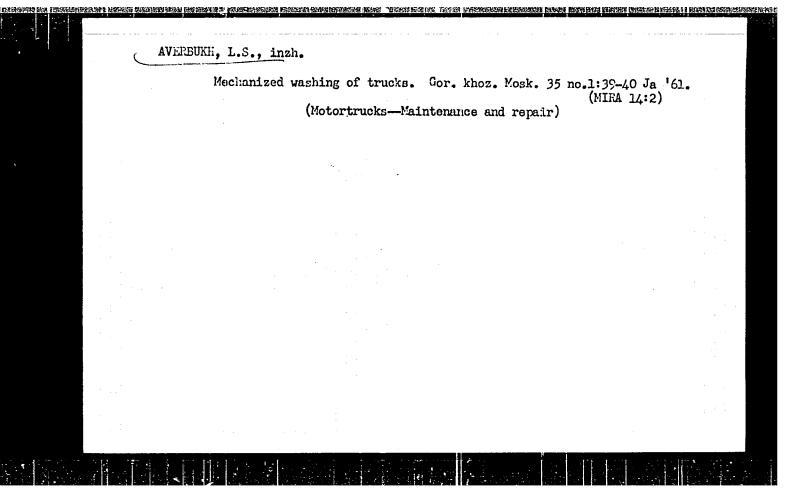
1. Otdel organizatsii zdravookhraneniya Ukrainskogo nauchnoissledovatel skogo instituta kommunul noy gigiyeny.

(KIEV\_\_DISEASES\_\_REPORTING)

TERENT'YEV, V.S., kand.tekhn.nauk; AVERBURI, L.D., inzh.; TERT'YAKOV, A.V., kend.tekhn.nauk

Ching hydropneumetic cervo systems for strip centering elong a mechine unit exis. Soor, st. MINIAZHMASHa Uralmashzavoda no.62140-145 '65.

(MIRa 18:11)



ACC NR: AP6025300 (N) SOURCE CODE: UR/0416/66/000/007/0067/0070

AUTHOR: Averbukh, M. (Engineer); Lobanov, D. (Engineer, Lieutenant colonel)

ORG: none

TITLE: Transportation of packaged cargoes by the Soviet Navy

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 7, 1966, 67-70

TOPIC TAGS: freight transportation, loading, unloading

ABSTRACT: Loading operations in the Soviet Navy represent about one-half of the expenses connected with the transportation of piece, bulk, and loose cargoes. The most labor-consuming are loading-unloading operations connected with piece cargoes which are usually handled manually. To reduce the costs, it is recommended that as much unpackaged freight as possible be eliminated and that mechanization be speeded up for loading-unloading operations for both piece and bulk cargoes. It is calculated that this will reduce costs by a factor of 5 to 6.5. Orig. art. has: 2 figures and 1 table.

SUB CODE: 15/

Card 1/1 fell

SOV/136-58-6-3/21 AUTHORS:

Averbukh, M.A., Burnashev, A.A., Birger, G.I., Baysh, L.G., Zubkov, G.A., Zhiryakov, N.I. Isayev, D.V., Ovcharenko,

Ye. Ya., Fromberg, A.B. and Shneyerov, M.S.

TITLE: New Means for Automatic Testing and Control in Non-

ferrous Metallurgy (Novyye sredstva avtomaticheskogo kontrolya i regulirovaniya v tsvetnoy metallurgii)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 6, pp 15 - 25 (USSR)

ABSTRACT: Many processes in non-ferrous metallurgy involve corrosive

media and the Konstruktorskoye byuro (Design Bureau)

Tsvetmetavtomatika (KB TsMA) have since 1955 been working

on pneumatic control methods, which are especially suitable for such conditions. Other organisations named

by the authors as some of those working in the same field are: Institut avtomatiki i telemekhaniki AN SSSR

(Institute of Automation and Telemechanics of the Ac.

Sc. USSR), NIITeplopribor, TsLA of the "Energochermet" Trust and the "Tizpribor" Works. A wide range (Table 1)

is covered by the pneumatic transducers, produced by the KB TsMA (Figures 1 and 2) in which use is made of a

corrosion-resistant Soviet plastic. A series of corrosionresistant valves have also been produced (Table 2),

Cardl/4 including a diaphragm type with a position indicator

o Molifica (Traditoria de los los los desenvientes dividos de los estados de la compansión de la compansión de

New Means for Automatic Testing and Control in Non-ferrous Metallurgy

(Figure 3). For the continuous analysis of hydrometallurgical solutions, the KB TsMA in 1957 developed (Figure 4) an automatic polarographic concentrationmeter, type KAP-225, with a transducer type DAPK-226: this device has been successfully used at the "Elektrotsink" Works for analysing for cadmium in zinc electrolyte and is based on alternating-current polarography. KB TsMA have developed a series of radioactive methods, particularly for level indication over a wide (type URP) (Figure 5) and a relatively narrow (type URPR) (Figure 6) range. A radioactive density-meter, type PR-150, independent of the mineralogical and size composition of pulp over a wide range has been successfully tested at the Zolotushinskaya obogatitelinaya fabrika (Zolotushinskaya Beneficiation Works) (ranges 1.5-2.5 and 1-2 kg/litre). Work is proceeding on other radioactive meters including a moisture meter, for concentrates and similar materials. Based on/Corrosion-resistant, differential, thermoelectric anemometer (electrical circuit proposed by engineers V.A. Drozdov and A.M. Listov), a flowmeter for pure or air-diluted chlorine has been developed by the

Card2/4

SOV/136-58-6-3/21
New Means for Automatic Testing and Control in Non-ferrous Metallurgy

they have also developed an analyser (type KB TsMA: GAKh-239) for chlorine which is accurate to + 3% and these two instruments are to be used in an integrated automation system being devised for the magnesium industry. KB TsMA have developed an automatic installation for (Figures 7 and 8) controlling a single pump in relation to the liquid level. Another recent activity of this organisation has been the development of the type ATV-229 overheating protective device (Figure 9) and a twelve-point temperature signalling device (Figure 10). The ATV-229 device is to be produced by the Tsvetmetpribor Works. In collaboration with the Institut gigiyeny truda i profzabo-levaniy AMN SSSR (Institute of Work Hygiene and Occupational Diseases of the AMS USSR), the KB TaMA have developed a device (Figure 11) for continuous measurement and recording of mercury-vapour concentration in air in the range 0.1 - 0.6 mg/m<sup>2</sup>. This instrument (IKRP-445) (Figure 11) also gives an alarm signal if the concentration becomes excessive and its range is being extended in both directions.

Card3/4

SOV/136-58-6-3/21

New Means for Automatic Testing and Control in Non-ferrous Metallurgy

There are 11 figures.

ASSOCIATION: KB Tsvetmetavtomatika

Card 4/4

AUTHOR:

Averbukh, M. A.

SOY/32-24-10-32/70

TITLE:

The Use of the SP-4 Spectrophotometer for Flame Spectrophotometry (Ispol'zovaniye spektrofotometra SF-4 dlya plamennoy

spektrofotometrii)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1252-1254 (USSR)

ABSTRACT:

This apparatus may be used for this purpose as it has a monochromator and a recording device. The conversion of the apparatus from emission to absorption analysis and vice versa can be done within 3-5 minutes. To adopt the SF-4 to flame photometry the light source must be removed and a gas burner must be put in its place. In the present case an illuminating gas with an air-blast was used for lower temperatures, and at higher temperatures an oxygen blast was used. A scheme of the apparatus for analyses at lower temperatures is given. The determination of potassium and sodium in electro-vacuum glasses is mentioned as an example. The sample is dissolved in a mixture of sulfuric acid and hydrofluoric acid and the mixture of sulfuric acid and hydrofluoric acid and the mixture of sulfuric acid and hydrofluoric acid and 50-

Card 1/2

100 mg/l K<sub>2</sub>SO<sub>4</sub>. The mean error of the first determination was

SOV/32-24-10-32/70

The Use of the SF-4 Spectrophotometer for Flame Spectrophotometry

about 1%. Taking into account the error in the decomposition the mean error of analysis amounts to about 3%. The duration of the photometric determination with an eight-fold determination of two elements takes about 2 hours. A comparative table of the results according to the analysis described and the chemical analysis is given. There are 2 figures and 1 table.

ASSOCIATION:

Moskovskiy elektrolampovyy zavod (Moscow Incandescent Bulb Factory)

Card 2/2

S/032/61/027/003/024/025 B101/B203

AUTHOR:

Averbukh, M. A.

TITLE &

Experience gained with the use of flame photometry for the

control of production of electric vacuum devices

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 3, 1961, 358

TEXT: Examples are given for the use of Clame photometry by means of an apparatus described earlier (Ref. 2: M. A. Averbukh, Zavodskaya laboratoriya, XXIV, 10, 1252 (1958)) for determining alkali metals and alkaline-earth metals in glass and other raw materials, further in photocells, emitters, photomultipliers, and electron tubes. 1) Determination of alkali metals in glass and raw materials. A 0.05 - 0.5 g weighed portion is treated with an  $\rm H_2SO_4$  - HF mixture, evaporated, annealed, and dissolved in water. As all glass components, except for the alkalis, remain in the unsoluble residue, alkali sulfate solutions can be used as standards. After six photometric measurements (15-20 min per alkali element to be tested, Li, Na, K), the mean error is 0.5 - 1%. The raw materials for glass production are analyzed in a similar manner. Card 1/2

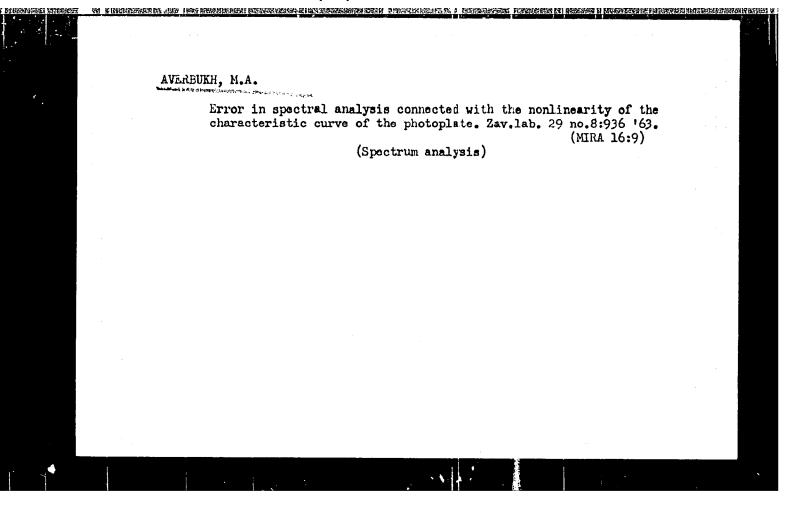
Experience gained with the ...

S 932/61/027/003/024/025 B101/B203

2) Determination of Na, K, Cs in photocells. The emitting coat of the cathode is dissolved in 10-50 ml of water, and the three elements are determined by flame photometry. According to the author's opinion, this simple method should be widely used in plants of electric vacuum devices.

3) Determination of Ca, Ba, Sr, and Na in carbonates. Binary and ternary carbonates used for the production of exide coats in electron tubes are controlled. The specimen is dissolved in HCl, and analyzed by flame photometry. Solutions of chlorides of the mentioned metals are used as standards. For the determination of Na (0.1 - 2%), the same standards can be used as for glass analysis. Ca, Ba, Sr are determined in a hot flame (exygen-gas flame). Up to now, the weighed portion of carbonates had to be 0.1 - 0.5 g. With the use of the new flame photometer, which has been designed on the basis of the YM-2 (UM-2) monochromator, a weighed portion of 1-10 mg is sufficient. Besides, flame photometry can be used to determine alkali impurities in Rb, Mn (0.1 - 0.5%) and Cu (with the use of an exygen-gas flame), and to analyze coats, wash wavers, itc. The method is simpler and saves time as compared with the chemical analysis. There are 2 Soviet-bloc references.

Card 2/2



BRANDER, A.I.; MASTYAYEV, V.Ya.; AVERBUKH, M.A.

An economical source for a d-c arc. 2nv. lab. 31 no.2:253 '65.

1. Moskovskiy elektrolampovyy zavod.

(MIRA 18:7)

LESECHINSKAYA, Z.i.; AVERBUKH, M.A.: SELIVANOVA, N.M.

Solubility and thermodynamic properties of barium and strontium selenites. Zhur. fiz. khim. 39 no.8:2036-2038 Ag '65.

(MIRA 18:9)

1. Moskovskiy khimike-tekhnologicheskiy institut imeni Mendeleyeva.

Averbukh, M.E.

05198 SOV/142-2-3-6/27 The Generalization of the Circuit Theory for Helical Delay Systems Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, pp 307-315 (USSR) The author suggests a method for determining the distributed paramenters of a helical conducting cylinder, which is co-axial with an external round wave-guide, in the absence of losses, based on the localization of transverse waves with subsequent application of a quasi-stationary method. The author obtained characteristic equations of an equivalent line coinciding with the dispersion equation of the system. The field distribution and the general dispersion equation of slow, normal waves in the system under consideration are shown. The possibility of generalizing the theory

Card 1/2

9(2,9) AUTHOR:

TITLE:

PERIODICAL:

ABSTRACT:

**APPROVED FOR RELEASE: 06/05/2000** CIA-RDP86-00513R000102530011-8"

of electromagnetic circuits for processes occurring in microwave vibrators and lines was considered by M.S. Ney'man, (Ref.1). A number of other authors, (Ref.2,3,4), successfully used the electrical circuit equation for studying some important properties of

05198 SOV/142-2-3-6/27

The Generalization of the Circuit Theory for Helical Delay Systems

delay devices of the helical or finned conductor types. However, the possibility of using such equations was not founded and no methods for calculating substitute line parameters were given. Figure 1 shows the configuration of the conductors under consideration. The author expresses his gratitude for the scientific guidance received by Property. Doctor of Physical and Mathematical Sciences, P.V. Golubkov, Candidate of Physical and Mathematical Sciences, A.I. Shtyrkov and others. The publication of this paper was recommended by the Kafedra abshchey fiziki Saratovskogo gosudarstvennogo universiteta, imeni N.G. Chernyshevskogo (Chair of General Physics of the Saratov State University, imeni N.G. Chernyshevskiy). There are 1 diagram, 1 block diagram, 2 graphs and 14 references, 6 of which are Soviet, 7 American and 1 German.

SUBMITTED:

November 27, 1958 (July 17, 1958)

Card 2/2

## "APPROVED FOR RELEASE: 06/05/2000 CIA-RI

CIA-RDP86-00513R000102530011-8

L 09967-67 EM(1) GD

SOURCE COLE: UR/0000/66/000/000/0048/0053

AUTHOR: Averbukh, M. E.

ORG: none

TITLE: Calculation of certain dispersion properties in a septate waveguide with a

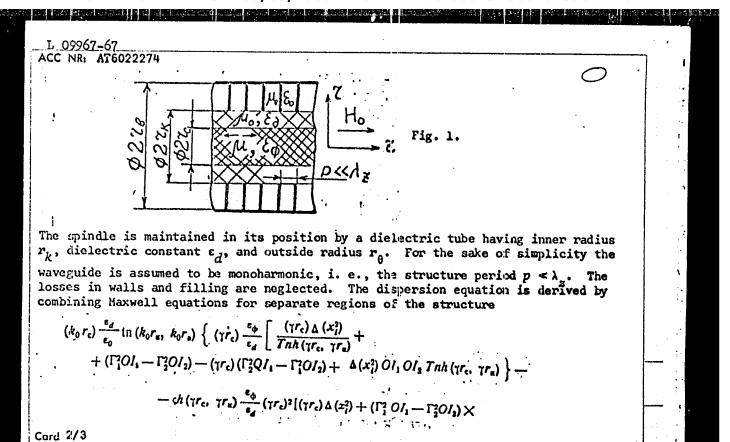
SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu, radio. 22d, 1966. Sektsiya kvantovoy elektroniki. Doklady. Moscow, 1966, 48-53

TOPIC TAGS: waveguide, waveguide propagation, phase shifter, ferrite, electromagnetic wave dispersion, dispersion equation

ABSTRACT: Dispersion equations for round septate waveguides are derived. The waveguides contain a central ferrite spindle coinciding with the axis of the structure. This type of waveguide produces an axisymmetrical dominant wave and compensates for the Faraday rotation of the plane of polarization. Such rotation for the dominant wave structure under consideration. The ferrite phase shifters. Figure 1 shows the stant  $\varepsilon_{\phi}$  and the permeability tensor

 $\frac{1}{\mu} = \begin{vmatrix} \mu & -jk & 0 \\ jk & \mu & 0 \\ 0 & 0 & \mu \end{vmatrix}$ 

Card 1/3



Card 3/3 20

ORIG REF: 004/

OTH REF:

002

1. 09967-67 ACC NR. AT6022279  $\times Tnh\left(\gamma r_{c}, \gamma r_{z}\right) - (\gamma r_{c}) \left[ \frac{\gamma r_{c}}{Tnh\left(\gamma r_{z}, \gamma r_{c}\right)} \left( \Gamma_{2}^{2} O I_{1} - \Gamma_{1}^{2} Q I_{2} \right) - \frac{Tnh\left(\gamma r_{c}, \gamma r_{z}\right)}{Tnh\left(\gamma r_{z}, \gamma r_{c}\right)} O I_{1} O I_{2} \Delta \left(x_{1}^{2}\right) \right] = 0.$ where  $k_0 = \frac{2\pi}{\lambda_0} = \frac{\omega}{c}$  is the wave number in free space  $Tnh(x, y) = \frac{I_1(y) k_1(x) - I_1(x) k_1(y)}{I_1(y) k_0(x) + I_0(x) k_1(y)},$   $ch(x, y) = \frac{I_0(x) k_0(y) - I_0(y) k_0(x)}{I_1(x) K_1(y) - I_1(y) K_1(x)},$ is the modified Bessel functions also contained in  $OI_i = x_i \frac{I_n(x_i)}{I_1(x_i)},$ also  $\Delta(x_i^2) = x_2^2 - x_1^2$ ;  $x_i = (\gamma_{ii} \ r_c)$ , i = 1, 2;  $\Gamma_i^2 = (\gamma_{ii} r_c)^2$ ; The dispersion equations for the special case when the waveguide is wholly filled with ferrite is also derived. An example for calculation of dispersion for a waveguide is included with illustrating graphs and a table. Orig. art. has: 3 figures, 1 table, 2 formulas. SUB CODE: 09,17,20,12/

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102530011-8"

SUBM DATE: 11Apr66/

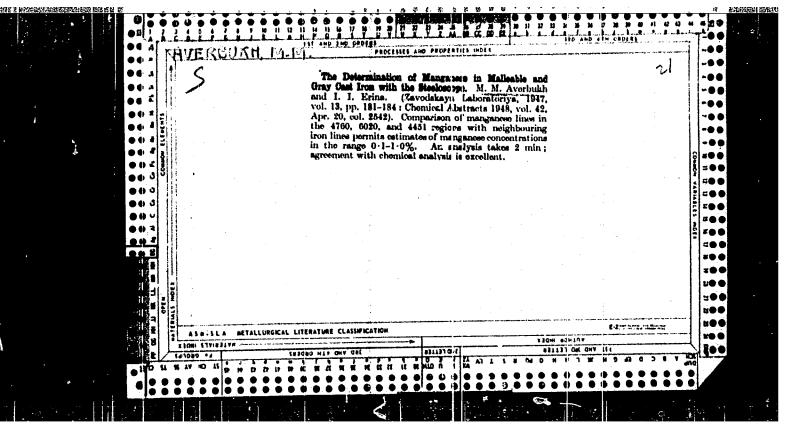
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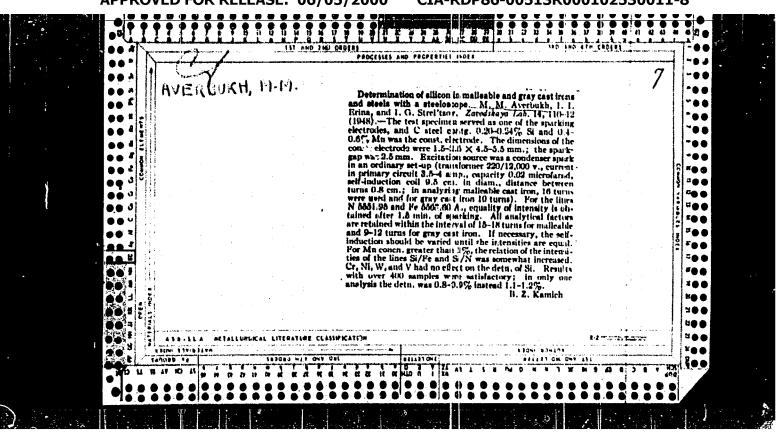
AVERBUKH, M.L.; RYBAS, I.I.; TROYAN, G.A.; SHIL'MAN, R.M.

Diagnosis of schizophrenia by means of the complement fixation reaction. Lab.delo 6 no.3:6-10 My-Je 160. (MIRA 13:7)

l. Kafedra psikhatrii (sav. - prof. G. Tu. Malis) i kafedra mikrobiologii (sav. - dotsent I.I. Hybas) Chernovitshogo medi-tsinskogo instituta (dir. - dotsent N.N. Kovalev) i (hernowitskoy paikhonevrologicheskoy bol 'ritsy (glavnyy vrach N.J. Chubinets).
(SCHIZOPHRENIA)

(COMPLEMENT FIXATION)





Anna de la Caracia.	AVERBUKH, M. M.				PA 157T	68
		and Si in piston alloy. Claims methods trol and correction of alloying process. imediate serial production of eyepieces.	USSR/Metals - Steeloscopes (Contd)	"Zavod Lab" Vol XV, No 12  Describes construction and gives test results photometric eyepiece used on VS-1 steeloscope increase accuracy of analysis. Gives results tests for Zn, Sn and Pb in OISS-6-6-3 bronzes Zn and Sn in BOIs-10-2 bronzes, and for Fe. C	**Quantitative Analysis of Monfarrous All Steeloscope With a Photometric Eyepiece, Averbukh, I. I. Yerina, State All-Union Auto and Tractor Technol, 4 pp	USSR/Metals - Steeloscopes
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USSR/Optics -Optical Methods of Analysis. Instruments.

K-7

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 13138

Author

Averbukh, M.M., Ivantsov, L.M., Kandinov, A.V.

Inst

Title

: Photoelectric Setup for High Speed Spectral Analysis, FEU-1

Orig Pub

: Zavod. laboratoriya, 1954, 20, No 1, 57-62

Abstract

: No abstract.

Card 1/1

24(7) AUTHORS:

SOV/48-23-9-24/57

Averbukh. Marka Artsishevskaya, N. V., Belyayev, N. V.,

Terina, I. I., Pen'kov, D. I., Strel'tsov, I. G.

TITLE:

New Photoelectric Spectroscopical Apparatus

PERIODICAL: . . .

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 9, pp 1105 - 1107 (USSR)

ABSTRACT:

In the present paper the apparatus of the types FESA-4 and FESA-4M are described. The former consists of an arc generator of the type DG-2, a three-lens condenser system, the optical part of the spectrograph of the type ISP-52, the camera of the type UF-84, the collimator of the type UF-61 and a system for line separation with four outlet slits and four photoelectric cells of the type STsV-4. The instrument is automatized and has an error of less than 0.5%. A photograph of this apparatus is shown by figure 1. The second apparatus described here consists of four blocks, and differs from the first by the optical system and by the form of its construction (Fig 2). The instrument makes it possible to control the line intensities. The experimenta carried out by means of both apparatus with two different materials are shown by two tables. There are 2 figures, 2 tables,

Card 1/2

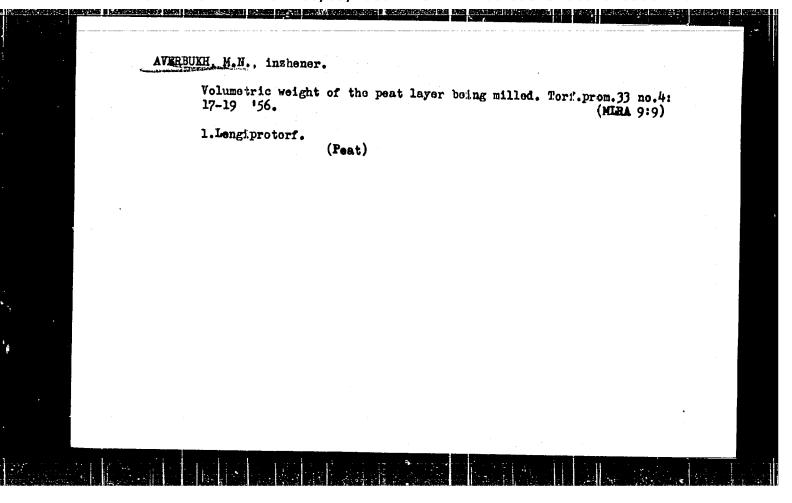
New Photoelectric Spectroscopical Apparatus

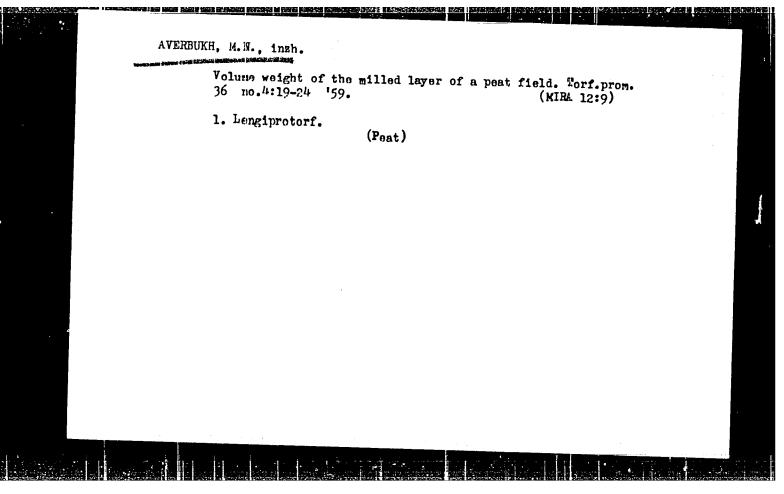
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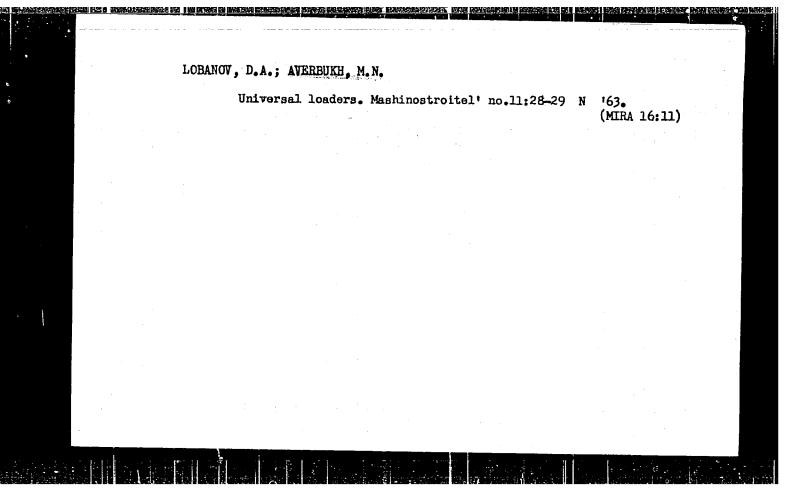
and 1 Soviet reference.

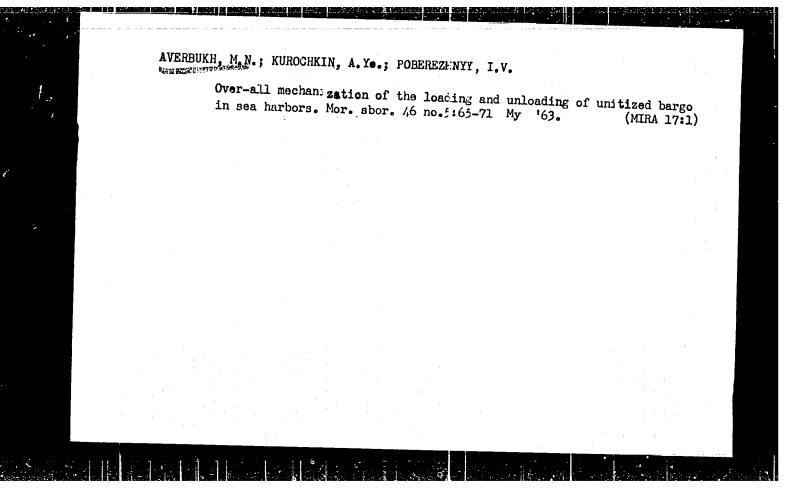
ASSOCIATION: Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (Scientific Research Institute for the Technology of the Automobile Industry)

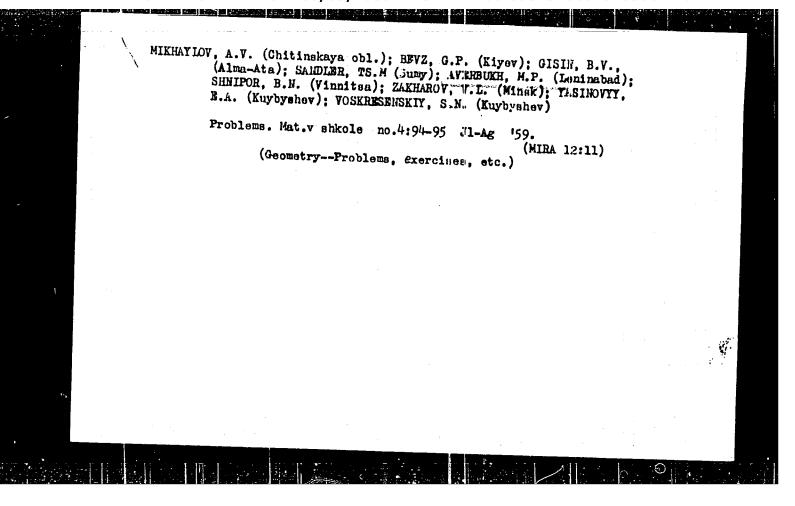
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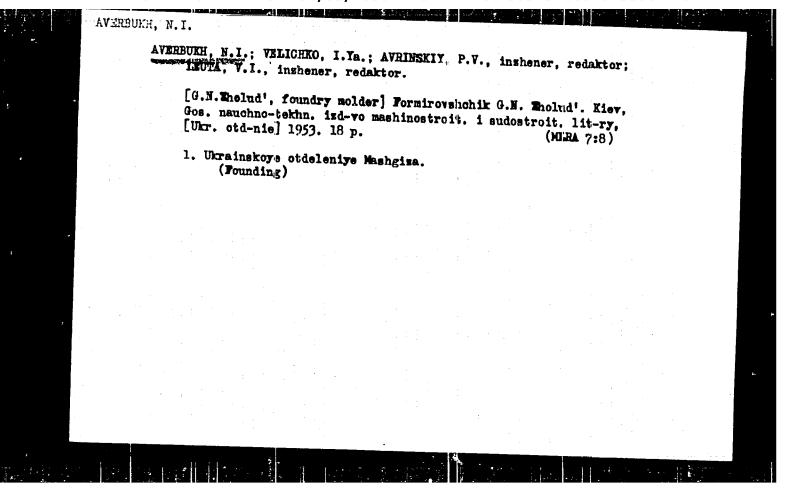


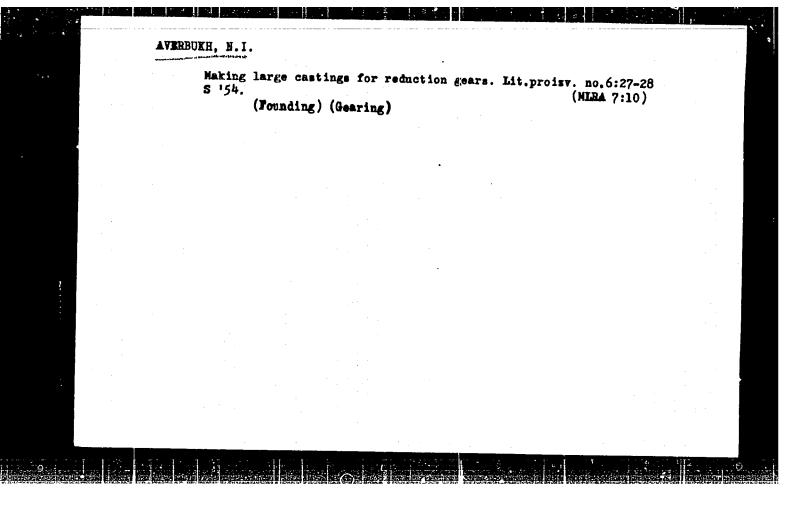


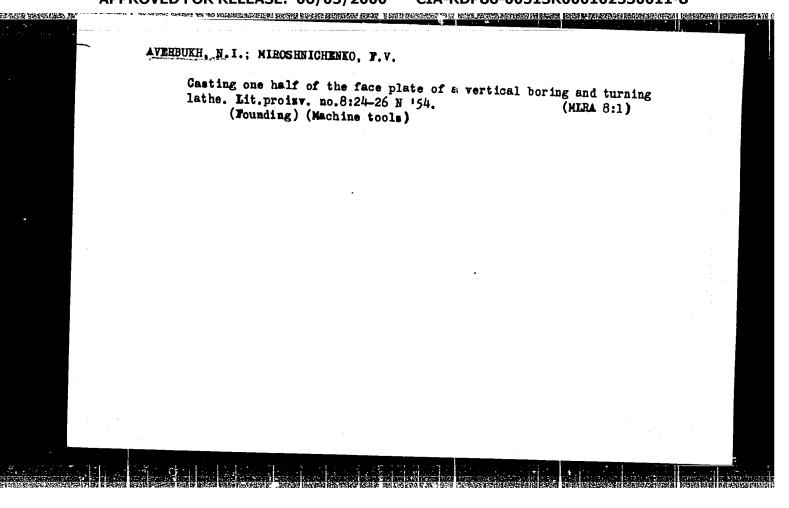
AVERBUKH, M.Ye.; LUGININA, I.G.; SMOGORZHEVSKIY, V.U.

Study of the electrical conductance of clinker minerals and cement.
TSement 29 no.6:6-7 N-D '63. (MIRA 17:3)

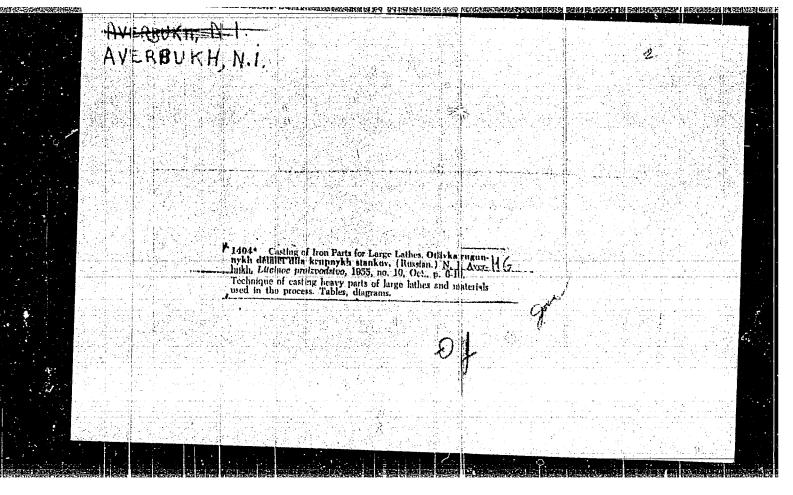
1. Kazakhskiy tekhnologicheskiy institut.







"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102530011-8



18(5), 25(1) AUTHOR:

Averbukh, N.I., Engineer

Sov/129-59-7-1/25

TITLE:

Machine Molding of Jarge Steel Castings

PERIODICAL:

Diteynoye proizvodstvo, 1959, Nr 7, pp 1-6 (USSR)

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ABSTRACT:

The author publishes the results gained while pouring engineering castings at a Plant for Heavy Machinery (castings from 1,900 up to 14,500 tons). He lists the differences and the difficulties appearing while pouring by hand. He gives regulations for suitable molding materials being permeable for gas and mentions the importance of silicate of sodium. He describes the system of pouring by means of machines (the syphon system) and the manner of permanent mold production by means of the molding machine model 233. As a result of progress made in the field of electric arc welding, it is now possible to divide large type castings into several parts allowing by this method the pouring by machines on a far larger scale. There follows a description together with drawings for a proper division of the casting shapes. Research work done by

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907/123-59-7-1/25

Machine Molding of Targe Steel Castings

the Institute of Production Engineering "imeni S. Ordzhonikidze" at Moscow is quoted and the economy efficiency of this manufacturing process is emphasized: According to this system 147 standard hours can be saved during each pouring cycle for tires. Put it demands a new organization of the working process, i.e. pouring and assembling of the casting shapes. Conclusion: There is a possibility for an extension of pouring engineering castings by the use of the welding process for large shapes. There are 2 tables and 17

Card 2/2

S/128/60/C00/006/003/007/XX A104/A133

AUTHOR:

Averbukh, N. I., Graduate Engineer

TITLE:

The standardization of machine-molded steel castings

PERIODICAL: Liteynoye proizvodstvc, no. 6, 1960, 1 - 8

The author discusses the difficulties of casting steel due to the lack of standard production methods. Rationalization of mold and core materials can be achieved by reduction of their types to a minimum. The following seven types of standard materials are suggested: (1) fast-freezing, based on sodium silicate for molds scavenged by carbon dickide or dried with gas torch; (2) sand-clay for tops dried in drying-rooms and for inner cores; (3) fast-freezing, based on sodium silicate and containing 20% marshalite for outside cores; (4) anti-cinder containing 97% chromite for cores of castings with more than 50 mm thick walls; (5) anti-scat sand-clay with 25% marshalite for cores of castings with walls of less than 50 mm; (6) fillers mixed with 15% sand; (7) fillers with 3 - 5% sawdust for cores. The two types of anti-scab materials (6) and (7) are necessary as chromite causes blowholes in castings with less than 50 mm wall-thickness.

Card 1/123

The standardization of machine-molded ...

自生性過程 具部 医肾术 法经济抵抗 经无法 法联络 医动脉丛 医多种

S/128/60/000/006/003/007/XX A104/A133

saved and the quality of castings is improved by developing an expedient pouring system and by a standardization of the relevant equipment. Chamotte pouring equipment is widely used. There are three standard-size chamotte feeders:  $20 \times 90$ ,  $30 \times 120$  and  $30 \times 140$  mm; tubes have a diameter of 50, 75 and 100 mm. Six types of machine molded steel castings used in heavy machinery production are described and some technical data given in Table 1. Figure 1 shows an assembled shaft machine hub mold; the pouring system employed ensures the shortest possible route of metal. The assembled mold of a welded shaft flange with the same pouring system is shown in Figure 2. The vertical gap pouring system used for geared bushings shown in Figure 3 is very effective. Another figure shows the assembled mold of a driving gear frame (without reduction box). Correct casting dimensions are of primary importance since complicated shapes lead to slower shrinkage (0.8 - 1%, depending on length). Gears are cast from steels listed in Table 2. After tempering the 35 XHM(35KhNL) steel proved stronger and showed a higher resistance to wear than 40 m/l (40GL) steel but was more inclined to cracks which could be eliminated by anti-crack measures i. e. condenser-fitted molds, special cutting off of deadheads and thermal processing. Figure 5 shows single and double-disc toothed wheels. A detailed description of the

Card 2/123

The standardization of machini-colden ...

3/4/8/60/000/001, 003/007/XX A104/A133

molding method is given. A special casting method based on a two-level pouring system comprising two syphons and two main risers has been developed for thick and thin-walled parts such as drums of excavator hoists. Figure 8 shows four main types of castings applied in the production of bearing lide and bodies, Group 6 includes the comparatively simple casting of long and thin-walled pieces e.g. the transverse beam shown in Figure 9. Bearing lide which are molded in vertical position require a split pattern; their origine construction (Fig. 10 a) has been improved as shown in Figure 10 b. Figure 11 a shows the conventional cast of a reductor body of a walking excavator and Figure 11 b the same unit completed according to the new standard easting method. There are 11 figures, 2 tables and 5 Soviet references.

Card 3/12

8/128/60/000/012/002/014 A054/A030

AUTHOR:

Averbukh, N.I

TITLE:

Vertical Slit Runner System for Steel Castings

PERIODICAL: Liteynoye proizvodstvo, 1960, No. 12, pp. 7 - 9

Although the vertical slit runner system was known as far back as 1928 (Ref. 3, A.G. Spasskiy: "Principles of the Foundry Industry", Metallurgizdat, 1950) it has so far been used on a small scale, mainly for thin walled aluminus and bronze castings. The Novo-Kramatorsk Engineering Works have developed rtical slit runner system for steel castings on a large scale, with wall thich asses between 20 and 200 mm. By reference to a typical product, a brake disc ,00 mm in diameter, gross weight 380 kg, wall thickness 46 mm, made from ( 90L) brand steel], the essential features of this system are described 40 below. The vertical slit runner system consists of a slit shaped feeder (1) over the total height of the casting, in which the metal enters through a slit-shaped pouring hole (2) connected with feeders (3) and (4) by intermittent pouring hole (5), and through the latter with the main pouring hole (6). For the efficient operation of this runner system the speed of the metal flow from the intermittent pouring hole to the slit-shaped pouring hole has to be reduced and this is ef-Card 1/4

Vertical Slit Runner System for Steel Castings

**3**/12<sup>6</sup>/60/000/012/002/014 A05<sup>4</sup>/A030

fected by increasing its diameter about 2 times compared to that of the intermittent pouring hole. The slit-shaped feeder, half of the slit type pouring hole and the lower feeder are constructed as part of the form, while the other half of the slit type pouring hole, the upper feeder and the intermittent pouring hole as part of the core box. The core boxes supplying cores for this system are provided with replaceable inserts the height of which depends on the required height of the core. For castings up to 900 kg the diameter of the intermittent pouring hole is 40 mm and that of the slit-shaped pouring hole 80 mm. For castings above 900 kg the pouring hole diameters are 55 and 110 mm, respectively. For castings with a diameter above 800 mm the vertical slit runner system consists of two sets, for castings measuring over 2,000 mm in diameter, the runner system consists of 3 sets. The main pouring hole, into which the metal flows immediately from the ladle, consists of a pipe, 100 mm in diameter. The open character of this runner system obtained by enlarging the cross section of the slit-shaped pouring hole as compared with that of the main pouring hole, ensures uniform filling of the form from bottom upwards to the top. In this way (when disregarding factors not depending on the runner system: structure of the casting, outlay of risers, etc.), the distribution of the metal temperature is in accordance with the conditions of controlled solidification. This feature of the

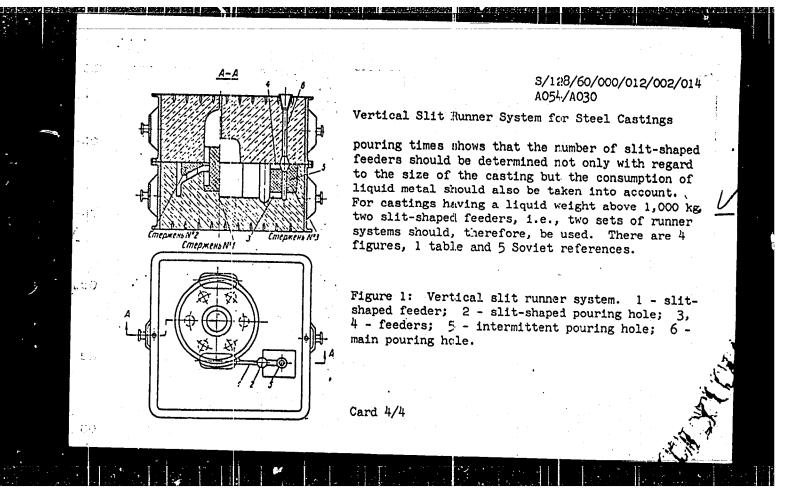
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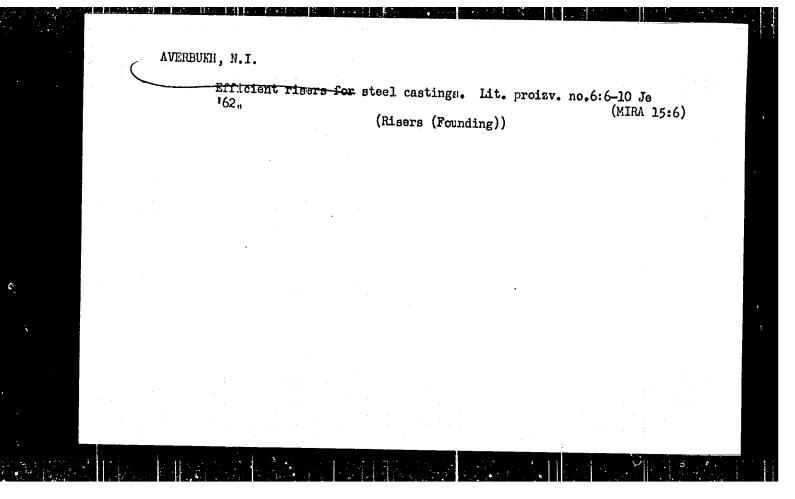
Vertical Slit Runner System for Steel Castings

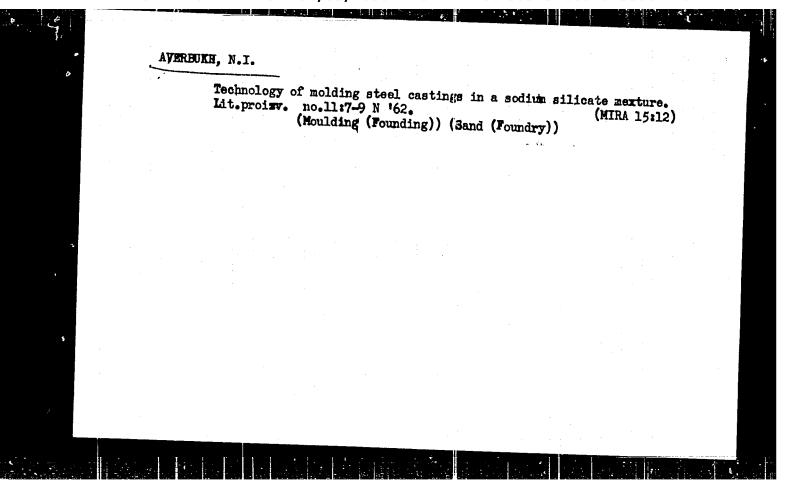
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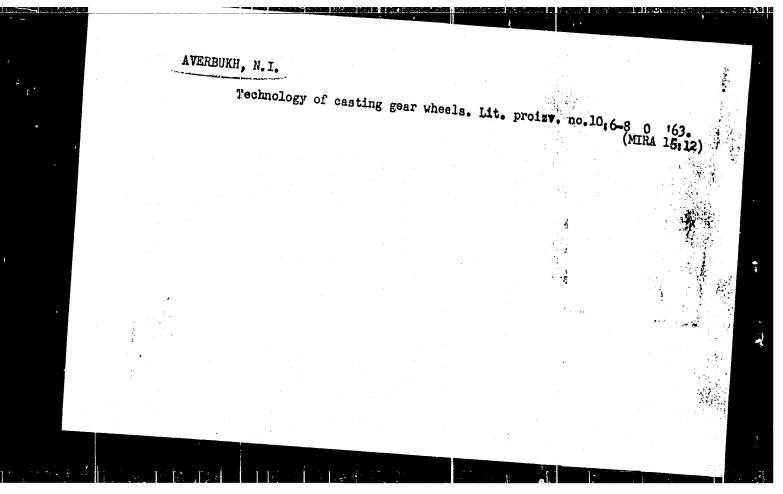
S/128/60/000/012/002/014 A054/A030

system is important mainly for massive castings. The decrease in the speed of the metal flow during its passing from the intermittent pouring hole into the slit-shaped hole, the rising speed of non-metallic inclusions and gases being maintained, promotes the cleaning of the metal in the slit type pouring hole. Moreover, the metal does not drop into the form from a height, as is the case when the feeder is arranged at the joint line of the mold. The casting is consequently free of burrs (caused by the runner core used in conventional systems for decreasing the drop height of the metal) and there are no black spots in the casting either, due to its displacement in the mold. The metal consumption is slightly higher than in the bottom casting system. The controlled hardening in this system makes it possible for the size of risers to be reduced, however, and this offsets the increase in metal consumption. A.A. Ryzhikov (Ref. 5: "Theoetical Basis of the Foundry Industry", Mashgiz, 1954) has mentioned possibilities of saving more metal with this runner system, by rolling over the mold after pouring. An important feature of the vertical slit runner system is that it can ensure an optimum pouring time which can be calculated by the formula  $t = s_1 V \delta G$ , where t = optimum pouring time, in sec.,  $\delta$  = the main or average wall thickness in mm, G = the weight of the casting, including runner system and risers,  $s_1 =$ coefficient depending on the technique (it is taken 1.10 for castings under 500 kg and 1.20 for castings above 1,000 kg). The analysis of actual and calculated Card 3/4









YUVACHEVA, N. Ya.; LIPOVSKAYA, T.N.; AVERBUKH, N.M., inzh., red.; YELAGINA, T.A., tekhn.red.

[High-strength magnesium cast iron; recommended bibliography]

Vysokoprochnye magnievye chuguny; rekomendatel'nyi spisok

literatury. Pod red. N.M. Averbukh. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn. znanii RSFSR, 1959. 70 p.

(MIRA 13:2)

1. Leningradskiy dom nauchno-tekhnicheskoy propagandy. (Bibliography--Cast iron)

18(0) AUTHOR:

Averbukh, N.M.

SOV/128-59-8-27/29

TITLE:

Leningrad Regional Conference on Progressive Foundry

Practice

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 8, pp 46 - 48 (USSR)

ABSTRACT:

December 8 - 12, 1959 a conference was held in Leningrad in order to exchange views on progressive foundry practice. About 700 persons participated. G.V. Malakhovskiy, the chief metallurgist of the Lenin-

grad gradskiy Sovnarkovi, gave a general picture of the foundry industry in the Leningrad economic region. M.M. Vyshemirskiy, the chief metallurgist of the Leningrad "Stankolit" plant, spoke about progressive methods in preparing cores and casting forms. M.A. Kremer, spoke on "New trends in the theory and practice of feeding castings! Yu.A. Nekhendzi reported on the 3rd Polish Foundry Conference. V.M. Se-

stopal described characteristics of Czech foundry processes. A.D. Goryachev (Kirov plant in beningrad) described a new 200 ton press machine. I.A. Gerasimov (Kremenchug) reported on precision stamp casting

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SOV/128-59-8-27/29 Leningrad Regional Conference on Progressive Foundry Practice

in his factory. S.S. Yellistratov (Stalingrad) described a vacuum machine for feeding cores. I.M. Fedorova described a new drying process used for drying cores. The lectures of M.A. Kremer, K.V. Tolstikhina, P.I. Pankin, and P.I. Shportenko concerned the problems of exothermic mixtures. N.A. Tolpegin (Kirov plant in Leningrad) spoke about steel castings. I.A. Shapranov and A.A. Get'man (Scientific Research Institute) reported on an economic casting method using iron with a magnesium content; further they described a cupola furnace with a two-step heating. Ya. I. Medvedev (TsNIITMASh) spoke about gas blisters in castings and methods of elimination. O.A. Kozin ("Krasnoye Sormovo" plant) spoke on the classification of casting spoilage in manganese steel. P.P. Berg spoke on "New core materials". I.B. Kumanin (Steel Institute of Moscow) spoke about "Core materials and their influence upon castings". M.A. Kremer suggested the use of bitumin in sandblowing machines. I.V. Ryzhkov (Polytechnical Institute of Khar'kov) reported

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Leningrad Regional Conference on Progressive Foundry Practice

on grey iron castings. Prokhorov ("Krasncye Sormovo" plant) spoke of using liquid glass in cores for V, Cr, Ni and Mo steel castings. I.V. Gruznykh (Polytechnical Institute in Leningrad) reported about optimum parameters for core-blowing of liquid-glass-cores. P.I. Shportenko said that in the Novokrematorsk plant the removal of liquid-glass-cores was regulated by a dosage of clay, saw dust and waterless colors. S.I. Chernysh gave examples of quick drying mixtures. K.I. Shanskiy (Leningrad Plant for Hoist Transportation Equipment) stated that cupola furnace slag can be used as quick drying mixtures. B.A. Noskov and A.F. Nasapkin (Politechnical Institute of Khar'kov) reported on using of betonite mixtures for cores. V.F. Kryuchkov (Leningrad Mechanical plant) and Ya. V. Zeleranskiy (Machine-Building plant) hold about the transportation of core mixtures. L.M. Mariyenbakh spoke on "Improvement of melting agregates and of melting processes" and proposed using earth-gases for air-warming-machines. P.F. Sabaneyev (Rostsel'mash) spoke about the intention of the

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plant to increase the output of grey iron. A constructive discussion took place after the theoretic lecture of B.A. Noskov and I.N. Den'gin (Politechnical Institute of Khar'kov) about the using of earth-gas in the furnace. Yu. G. Rozenberg and S.I. Isukerman reported about the successful use of earth-gas in the furnaces of khemz. L.N. Korchagina and R. I. Ketcheka discussed the use of such gas in the Rostov radiator plant and in the "Krasnyy Aksay " plant. On the subject of improved melting in Red China A.M. Petrishenko reported. I.I. Shapranova and E.V. Petrova (NII) informed on the modification of iron with magnesium under pressure. G.N. Golub spoke about using iron modified with magnesium in his plant. G.I. Koshovnik (Politechnical Institute of Kiyev) reported on the homogenization of magnesium iron during annealing. M.Ta. Zaslavskiy spoke about the production of grey iron at the Nevskiy Ship Repair Plant. "Increasing the Quality of Castings from Non-Ferrous metals" was the lecture of A.F. Kolobnev and N.I. Belonsov (NII) in which they gave the characteristics of the new aluminum alloys (AV 30,

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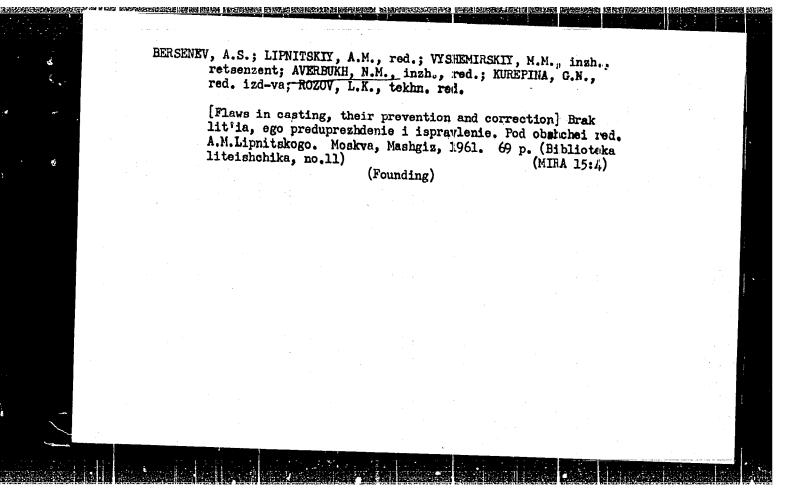
AV 300, AMg7A a.o. I.P. Yegorenkov (NIILITMASh) mentioned in his lecture "Ways to Increase Labor Productivity during the cleaning and chopping of Castings", hydraulic methods of cleaning. V.L. Tarskiy (NIILITMASh) spoke about foreign equipment. M.A. Kremer informed on cleaning steel castings with a gas flame and air-arc method. V:M. Svirskiy mentioned the scortcomings of sand-blowing tools. M.Ya. Zaslavskiy (Lengiprorechtrans) introducedasimple hydro-sand-spurl machine. M.V. Bromley (All-Union Scientific Research Institute for Labor Protection VIzSPS) spoke on "Hygiene-Technical Requirements of the Plans and Building of Casting Shops". V.V. Kucheruk from the same justitute raised the problem of labor protection during casting in shell-cores and when preparing the cores from the liquid-glass mixtures. O.A. Ratner (Leningrad Institute for Labor Medicine and Labor Hygiene) spoke about the prevention of silicosis. At the end decisions were taken to increase labor productivity.

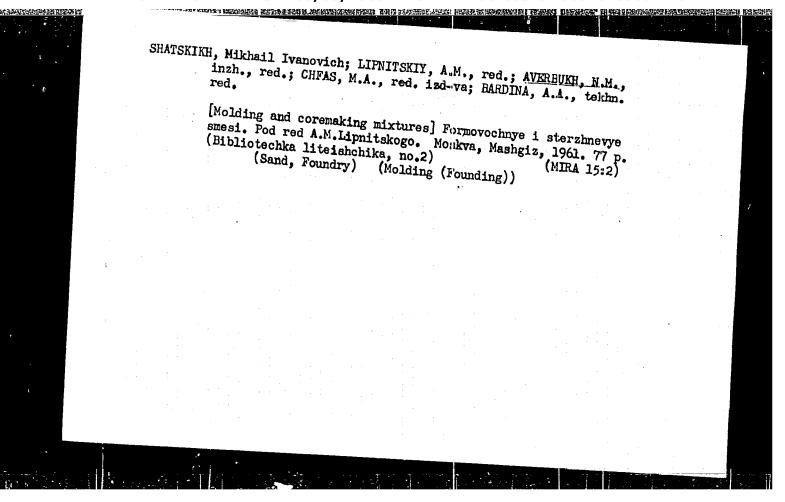
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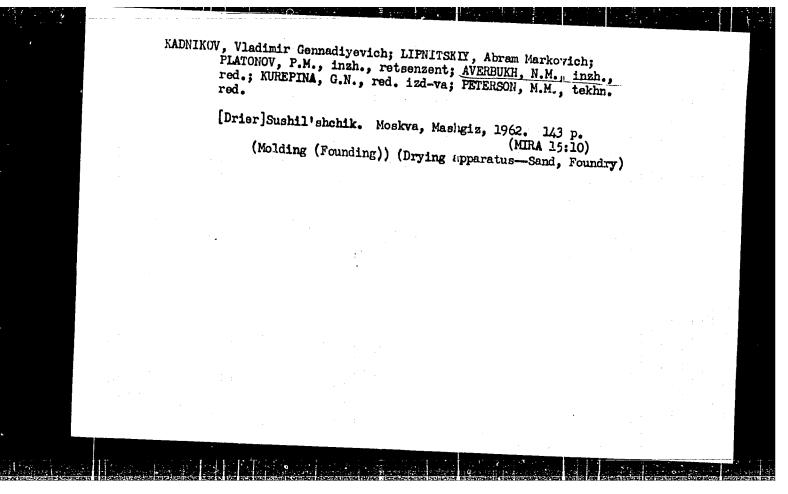
PIKUS, Lyubov' Minov'yevne; AVERBUKH, N.M., insh., red.; FREGER, D.P., izd.red.; BELOGUROVA, I.A., tekhn.red.

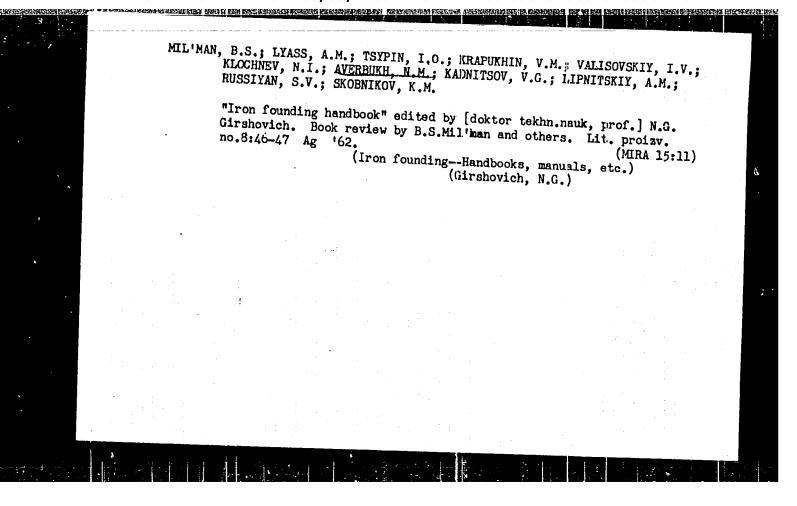
[Chemically hardening mixtures for the production of large steel and iron castings; experience of the Neva Machinery Manufacturing Plant in Leningrad] Khimicheski tverdeiushchie smesi v proizvodstve krupnogo stal'nogo i chugunnogo lit'ia; opyt Nevakogo mashinostroitel'nogo zavoda im. Lenina. Leningrad, 1960. 17 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Liteinoe proizvodstvo, vyp. 6).

(Leningrad -- Sand, Foundry -- Additives)









ZELERANSKIY, Yakov Vladimirovich; KASHANSKIY, Mikhail Stanislavovich; AVERBUKH, N.M., nauchnyy red.; SHEMGER, I.A., red.izd-vn; BELOGUROVA, I.A., tekhn. red.

[Cver-all mechanization in the preparation of molding materials and mixtures in iron foundries] Kompleksmaia mekhanizatsiia podgotovki formovochnykh materialov i prigotovleniia smesei v chuguno-liteinykh tsekhakh. Ieningrad, 1963. 14 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Liteinoi proizvodstvo, no.1)

(Foundries-Equipment and supplies) (Sand, Foundry)

